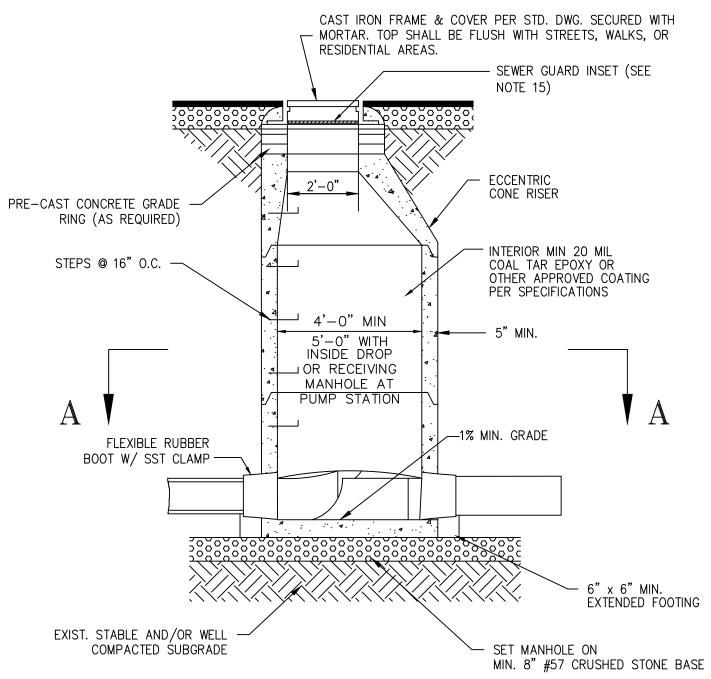
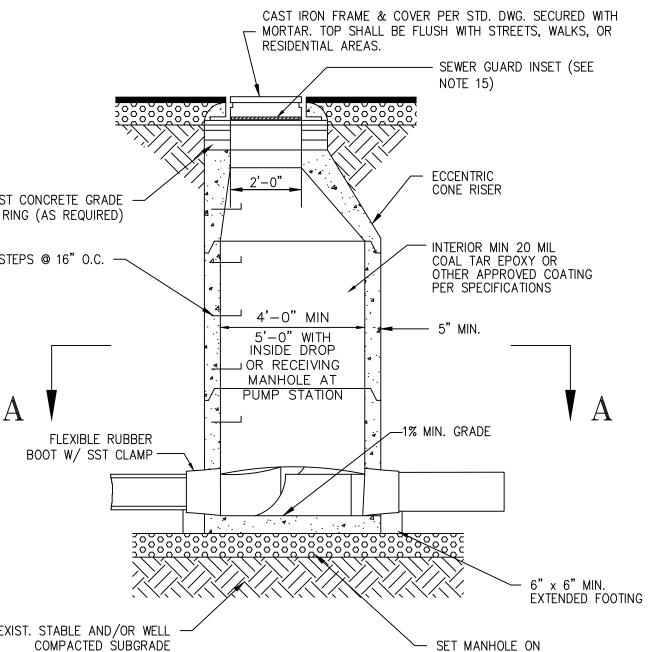
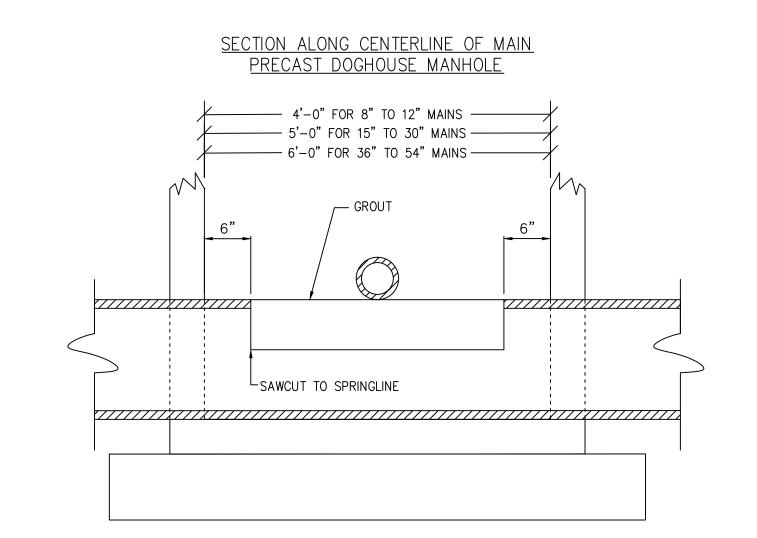
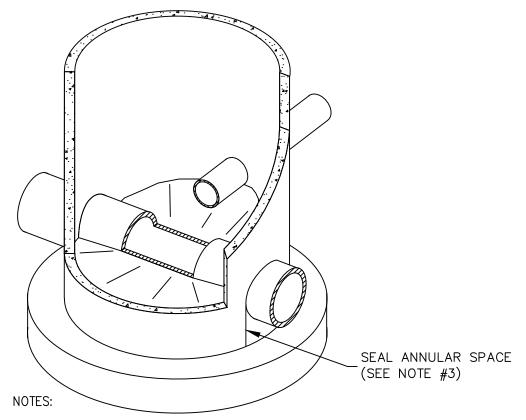
- 1. PRECAST CONCRETE MANHOLES SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM C 478. ALL SURFACES SHALL BE SMOOTH AND EVEN TEXTURED WITH A MINIMUM OF
- HONEYCOMB, FIN, AND OTHER IMPERFECTIONS. 2. JOINTS BETWEEN MANHOLE SECTIONS SHALL BE SEALED WATERTIGHT USING EITHER O-RING GASKETS CONFORMING WITH ASTM C 443 OR BUTYL RESIN CONFORMING WITH AASHTO
- 3. EXTERIOR JOINTS SHALL BE SEALED WITH A 4" WIDE BUTYL
- RUBBER WRAP. 4. ADD INTERIOR HIGH SOLIDS EPOXY PROTECTION COATING FOR ALL MANHOLES RECEIVING DISCHARGE FROM FORCE MAINS PER BRUNSWICK COUNTY TECHNICAL SPECIFICATIONS (MIN. 20
- 5. HOLES FOR CONNECTION OF PIPE TO MANHOLE SHALL BE PRECAST OR CORED. DIAMETER OF HOLE SHALL NOT EXCEED
- OUTSIDE DIAMETER OR PIPE BY MORE THAN 3 INCHES. 6. CONNECTIONS OF PIPE TO MANHOLE SHALL BE MADE WATERTIGHT USING RESILIENT CONNECTORS CONFORMING TO ASTM C 923 OR NEOPRENE BOOTS EMBEDDED IN PRECAST BASE WITH STAINLESS STEEL COMPRESSION BANDS.
- 7. MANHOLE INVERTS SHALL BE INSTALLED USING BRICK AND MORTAR, OR MANHOLES MAY BE PRECAST, MONOLITHIC
- SECTIONS WITH FORMED INVERTS. 8. LIFT HOLES SHALL BE PLUGGED AND FILLED FLUSH WITH
- 9. ALL BRICK AND MORTAR SHALL RECEIVE A 1/2" MORTAR
- PARGE COAT ON INSIDE AND OUTSIDE. 10. ALL SPACE BETWEEN PIPE AND OPENING INSIDE OF MANHOLE TO BE GROUTED WITH TYPE S MORTAR
- 11. SEWER MAIN PENETRATIONS AND/OR SERVICE LATERAL PENETRATIONS ENTERING AT 30" OR LESS ABOVE THE MANHOLE BENCH SHALL HAVE A SLIDE CONSTRUCTED OF BRICK AND MORTAR.(SEE DETAIL)
- 12. ALL PENETRATIONS ENTERING MANHOLE AT GREATER THAN 30"
- SHALL BE AN INSIDE DROP MANHOLE (SEE DETAIL). 13. INSIDE DROP MANHOLES, AND PUMP STATION RECEIVING
- MANHOLES SHALL BE MINIMUM 5' DIAMETER MANHOLES. 14. SANITARY SEWER MANHOLES SHALL BE COATED WITH COAL TAR EPOXY 20 MILS THROUGHOUT THE INSIDE OF THE MANHOLE.
- 15. ALL MANHOLES SHALL HAVE A SEWER GUARD INSERT INSTALLED - PLASTIC IS ALLOWED IN NON-TRAFFIC AREAS -STAINLESS STEEL INSERT PANS ARE REQUIRED IN TRAFFIC
- 16. MANHOLES SHALL BE TRAFFIC BEARING WITH A MINIMUM HS-20 LOAD ALLOWANCE.



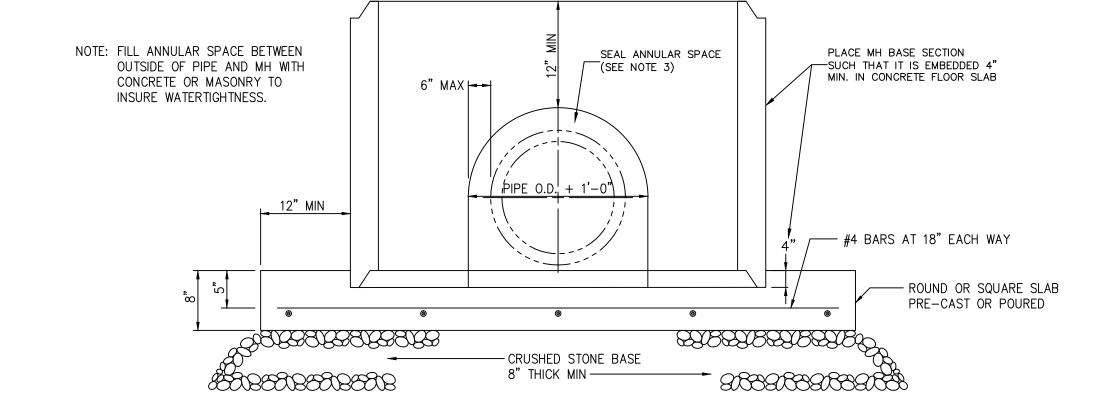
PRECAST CONCRETE MANHOLE DETAIL S-1



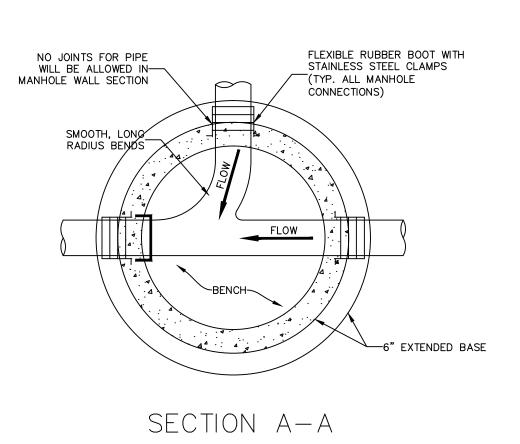


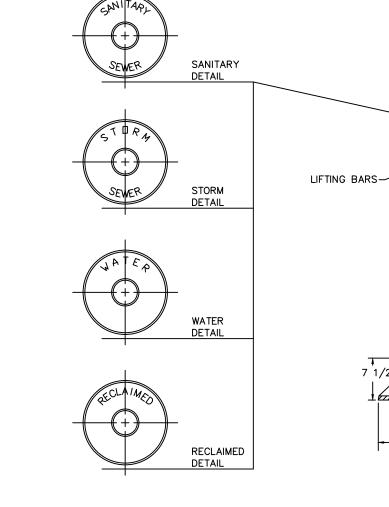


- 1. FLOW SHALL BE MAINTAINED DURING CONSTRUCTION.
- THIS DETAIL TO BE USED WHEN A NEW 6" OR LARGER LATERAL OR MAIN NECESSITATES CONSTRUCTION OF A NEW MANHOLE.
- 3. ANNULAR SPACE BETWEEN PIPE AND MANHOLE MUST BE SEALED WITH BRICK AND MORTAR TO PREVENT INFILTRATION.



PRECAST CONCRETE DOGHOUSE MANHOLE DETAIL S-4





| MANUFACTURER | MODEL NUMBER |
|---------------------------|----------------------------|
| US FOUNDRY | 725 RING / DP-SSG COVER |
| US FOUNDRY | 710 RING / DP-SSG COVER |
| CAPITAL FOUNDRY | MH-3000 |
| EAST JORDAN IRON WORKS | 202711 RING / 202746 COVER |
| GENERAL FOUNDRIES | GFI-7126 / GFI-41261 |

STANDARD MANHOLE RING AND COVER DETAIL S-2

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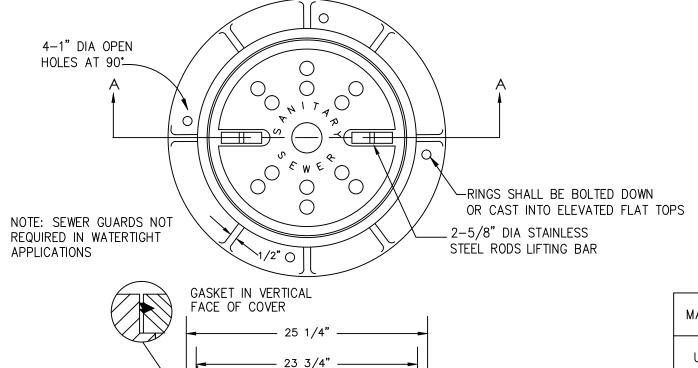
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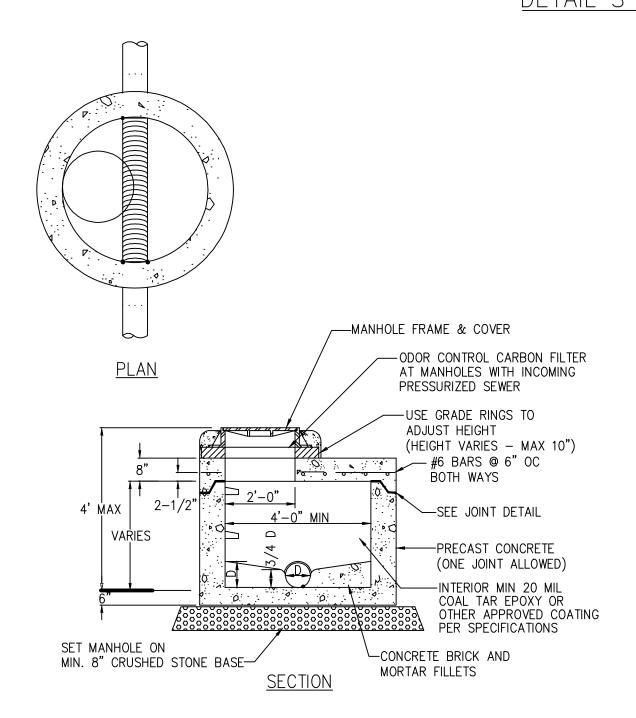
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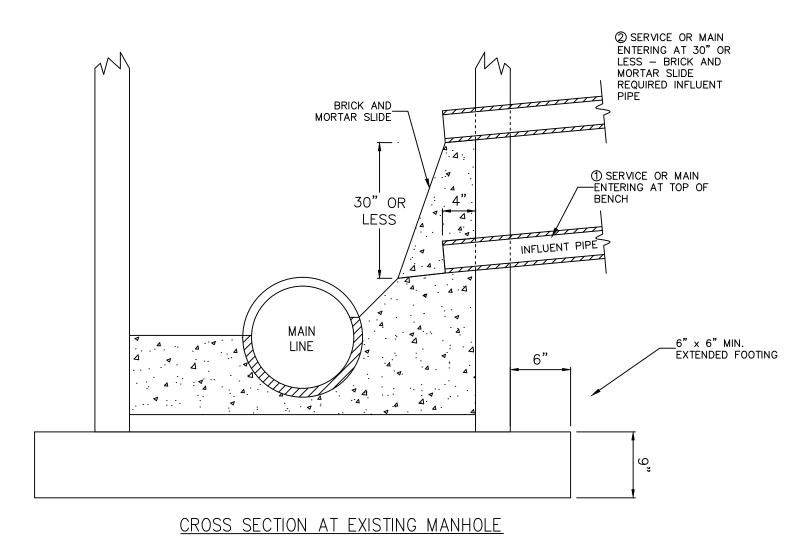
SECTION A-A

| MANUFACTURER | MODEL NUMBER |
|---------------------------|----------------------------|
| US FOUNDRY | 725 RING / DP-SSG COVER |
| US FOUNDRY | 710 RING / DP-SSG COVER |
| CAPITAL FOUNDRY | MH-3000-WT |
| EAST JORDAN IRON WORKS | 202701 RING / 202722 COVER |

WATERTIGHT MANHOLE RING AND COVER DETAIL S-3



SHALLOW PRECAST CONCRETE MANHOLE WITH FLAT TOP DETAIL S-5



MAINS OR SERVICES ENTERING MANHOLE DETAIL S-6

Revisions

Mod. S-4, S-6, Rem. S-4A

.1 - DATED 4/30/2013

Date: <u>06-14-12</u> Scale: NTS Drawn By: JDM Checked By: WLP

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